Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please cancel the following claims, without prejudice or disclaimer:

Claims 582 – 591, 597, 614, and 615;
Claims 592 – 594 and 618;
Claims 595 and 616;
Claims 598 and 617; and
Claims 599 and 619.

1-521. (Cancelled)

522. (Currently Amended) A system for forming a mono diameter wellbore casing within a borehole that includes a preexisting wellbore casing, comprising:

means for supporting ~~the~~ an expandable tubular member, ~~a~~ hydraulic actuator, and an adjustable expansion device within the borehole;

means for increasing ~~the~~ a size of the adjustable expansion device;

means for displacing the adjustable expansion device upwardly relative to the expandable tubular member using the hydraulic actuator to radially expand and plastically deform a portion of the expandable tubular member; and

means for displacing the adjustable expansion device upwardly relative to the expandable tubular member to radially expand and plastically deform ~~the~~ a remaining portion of the expandable tubular member and a portion of the preexisting wellbore casing that overlaps with an end of the remaining portion of the expandable tubular member.

523. (Previously Presented) The system of claim 522, further comprising:
means for reducing the size of the adjustable expansion device after the portion of the expandable tubular member has been radially expanded and plastically deformed.

524. (Currently Amendedd) The system of claim 523, further comprising:
means for fluidicly sealing ~~the~~ a radially expanded and plastically deformed end of the expandable tubular member after reducing the size of the adjustable expansion device.

525. (Currently Amended) The system of claim 524, further comprising:
means for permitting ~~the~~ a position of the expandable tubular member to float relative to ~~the~~ a position of the hydraulic actuator after fluidicly sealing the radially expanded and plastically deformed end of the expandable tubular member.

526. (Previously Presented) The system of claim 525, further comprising:
means for injecting a hardenable fluidic sealing material into an annulus between the expandable tubular member and the borehole after permitting the position of the expandable tubular member to float relative to the position of the hydraulic actuator.

527. (Previously Presented) The system of claim 525, further comprising:
means for increasing the size of the adjustable expansion device after permitting the position of the expandable tubular member to float relative to the position of the hydraulic actuator.

528. (Previously Presented) The system of claim 527, further comprising:
means for displacing the adjustable expansion cone upwardly relative to the expandable tubular member to radially expand and plastically deform the remaining portion of the expandable tubular member.

529. (Previously Presented) The system of claim 528, further comprising:

means for not permitting the position of the expandable tubular member to float relative to the position of the hydraulic actuator; and

means for displacing the adjustable expansion cone upwardly relative to the expandable tubular member using the hydraulic actuator to radially expand and plastically deform the end of the remaining portion of the expandable tubular member that overlaps with the preexisting wellbore casing after not permitting the position of the expandable tubular member to float relative to the position of the hydraulic actuator.

530. (Previously Presented) A system for radially expanding and plastically deforming a tubular member, comprising:

means for positioning the tubular member within a preexisting structure;

means for radially expanding and plastically deforming a lower portion of the tubular member to form a bell section; and

means for radially expanding and plastically deforming a portion of the tubular member above the bell section.

531. (Previously Presented) The system of claim 530, wherein positioning the tubular member within a preexisting structure comprises:

means for locking the tubular member to an expansion device.

532. (Currently Amended) The system of claim 531, wherein ~~the~~ an outside diameter of the expansion device is less than ~~the~~ an inside diameter of the tubular member.

533. (Previously Presented) The system of claim 531, wherein the expansion device is positioned within the tubular member.

534. (Previously Presented) The system of claim 531, wherein the expansion device comprises an adjustable expansion device.

535. (Previously Presented) The system of claim 534, wherein the adjustable expansion device is adjustable to a plurality of sizes.

536. (Previously Presented) The system of claim 531, wherein the expansion device comprises a plurality of expansion devices.

537. (Previously Presented) The system of claim 536, wherein at least one of the expansion devices comprises an adjustable expansion device.

538. (Currently Amended) The system of claim 537, wherein at least one of the adjustable expansion devices is adjustable to a plurality of sizes.

539. (Previously Presented) The system of claim 530, wherein means for radially expanding and plastically deforming a lower portion of the tubular member to form a bell section comprises:

means for lowering an expansion device out of an end of the tubular member; and

means for pulling the expansion device through the end of the tubular member.

540. (Currently Amended) The system of claim 539, wherein the means for lowering an expansion device out of an end of the tubular member comprises:

means for lowering the expansion device out of the end of the tubular member; and

means for adjusting ~~the~~ a size of the expansion device.

541. (Previously Presented) The system of claim 540, wherein the adjustable expansion device is adjustable to a plurality of sizes.

542. (Previously Presented) The system of claim 540, wherein the expansion device comprises a plurality of adjustable expansion devices.

543. (Previously Presented) The system of claim 542, wherein at least one of the adjustable expansion devices is adjustable to a plurality of sizes.

544. (Currently Amended) The system of claim 539, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for gripping the tubular member; and

means for pulling ~~an~~ the expansion device through an end of the tubular member.

545. (Previously Presented) The system of claim 544, wherein means for gripping the tubular member comprises:

means for permitting axial displacement of the tubular member in a first direction; and

means for not permitting axial displacement of the tubular member in a second direction.

546. (Previously Presented) The system of claim 544, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for pulling the expansion device through the end of the tubular member using an actuator.

547. (Previously Presented) The system of claim 530, wherein means for radially expanding and plastically deforming a portion of the tubular member above the bell section comprises:

means for lowering an expansion device out of an end of the tubular member; and

means for pulling the expansion device through the end of the tubular member.

548. (Currently Amended) The system of claim 547, wherein means for lowering an expansion device out of an end of the tubular member comprises:

means for lowering the expansion device out of the end of the tubular member; and

means for adjusting ~~the~~ a size of the expansion device.

549. (Previously Presented) The system of claim 548, wherein the adjustable expansion device is adjustable to a plurality of sizes.

550. (Previously Presented) The system of claim 548, wherein the expansion device comprises a plurality of adjustable expansion devices.

551. (Previously Presented) The system of claim 550, wherein at least one of the adjustable expansion devices is adjustable to a plurality of sizes.

552. (Previously Presented) The system of claim 547, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for gripping the tubular member; and

means for pulling an expansion device through an end of the tubular member.

553. (Previously Presented) The system of claim 552, wherein means for gripping the tubular member comprises:

means for permitting axial displacement of the tubular member in a first direction; and

means for not permitting axial displacement of the tubular member in a second direction.

554. (Previously Presented) The system of claim 552, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for pulling the expansion device through the end of the tubular member using an actuator.

555. (Previously Presented) The system of claim 547, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for pulling the expansion device through the end of the tubular member using fluid pressure.

556. (Previously Presented) The system of claim 555, wherein means for pulling the expansion device through the end of the tubular member using fluid pressure comprises:

means for pressurizing an annulus within the tubular member above the expansion device.

557. (Previously Presented) The system of claim 530, wherein means for radially expanding and plastically deforming a portion of the tubular member above the bell section comprises:

means for fluidicly sealing an end of the tubular member; and

means for pulling the expansion device through the tubular member.

558. (Previously Presented) The system of claim 557, wherein the expansion device is adjustable.

559. (Previously Presented) The system of claim 558, wherein the expansion device is adjustable to a plurality of sizes.

560. (Previously Presented) The system of claim 557, wherein the expansion device comprises a plurality of adjustable expansion devices.

561. (Previously Presented) The system of claim 560, wherein at least one of the adjustable expansion devices is adjustable to a plurality of sizes.

562. (Currently Amended) The system of claim 557, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for gripping the tubular member; and

means for pulling ~~an~~the expansion device through an end of the tubular member.

563. (Previously Presented) The system of claim 562, wherein means for gripping the tubular member comprises:

means for permitting axial displacement of the tubular member in a first direction; and

means for not permitting axial displacement of the tubular member in a second direction.

564. (Previously Presented) The system of claim 563, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for pulling the expansion device through the end of the tubular member using an actuator.

565. (Previously Presented) The system of claim 557, wherein means for pulling the expansion device through the end of the tubular member comprises:

means for pulling the expansion device through the end of the tubular member using fluid pressure.

566. (Previously Presented) The system of claim 565, wherein means for pulling the expansion device through the end of the tubular member using fluid pressure comprises:

means for pressurizing an annulus within the tubular member above the expansion device.

567. (Previously Presented) The system of claim 530, wherein means for radially expanding and plastically deforming a portion of the tubular member above the bell section comprises:

means for overlapping the portion of the tubular member above the bell section with an end of a preexisting tubular member; and

means for pulling an expansion device through the overlapping portions of the tubular member and the preexisting tubular member.

568. (Previously Presented) The system of claim 567, wherein the expansion device is adjustable.

569. (Previously Presented) The system of claim 568, wherein the expansion device is adjustable to a plurality of sizes.

570. (Previously Presented) The system of claim 567, wherein the expansion device comprises a plurality of adjustable expansion devices.

571. (Previously Presented) The system of claim 570, wherein at least one of the adjustable expansion devices is adjustable to a plurality of sizes.

572. (Previously Presented) The system of claim 567, wherein means for pulling the expansion device through the overlapping portions of the tubular member and the preexisting tubular member comprises:

means for gripping the tubular member; and

means for pulling the expansion device through the overlapping portions of the tubular member and the preexisting tubular member.

573. (Previously Presented) The system of claim 572, wherein means for gripping the tubular member comprises:

means for permitting axial displacement of the tubular member in a first direction; and

means for not permitting axial displacement of the tubular member in a second direction.

574. (Previously Presented) The system of claim 572, wherein means for pulling the expansion device through the overlapping portions of the tubular member and the preexisting tubular member comprises:

means for pulling the expansion device through the overlapping portions of the tubular member and the preexisting tubular member using an actuator.

575. (Previously Presented) The system of claim 572, wherein means for pulling the expansion device through the overlapping portions of the tubular member and the preexisting tubular member comprises:

means for pulling the expansion device through the overlapping portions of the tubular member and the preexisting tubular member using fluid pressure.

576. (Previously Presented) The system of claim 575, wherein means for pulling the expansion device through the overlapping portions of the tubular member and the preexisting tubular member using fluid pressure comprises:

means for pressurizing an annulus within the tubular member above the expansion device.

577. (Previously Presented) The system of claim 572, further comprising:

means for cutting an end of the portion of the tubular member that overlaps with the preexisting tubular member.

578. (Currently Amended) The system of claim 577, further comprising:

means for removing ~~the~~ a cut off end of the expandable tubular member from the preexisting structure.

579. (Previously Presented) The system of claim 530, further comprising:

means for injecting a hardenable fluidic sealing material into an annulus between the expandable tubular member and the preexisting structure.

580. (Previously Presented) The system of claim 530, further comprising:

means for cutting off an end of the expandable tubular member.

581. (Previously Presented) The system of claim 580, further comprising:

means for removing the cut off end of the expandable tubular member from the preexisting structure.

Claims 582-595. (Canceled).

596. (Currently Amended) An apparatus for radially expanding and plastically deforming an expandable tubular member, comprising:

a support member;

a cutting device for cutting the tubular member coupled to the support member;

a gripping device for gripping the tubular member coupled to the support member;

a sealing device for sealing an interface with the tubular member coupled to the support member;

a locking device for locking ~~the~~ a position of the tubular member relative to the support member;

a first adjustable expansion device for radially expanding and plastically deforming the tubular member coupled to the support member;

a second adjustable expansion device for radially expanding and plastically deforming the tubular member coupled to the support member;

a packer coupled to the support member; and

an actuator for displacing one or more of the sealing ~~assembly~~device, first and second adjustable expansion devices, and packer relative to the support member.

Claims 597-599. (Canceled).

600. (Currently Amended) A method of radially expanding and plastically deforming an expandable tubular member within a borehole having a preexisting wellbore casing, comprising:

positioning ~~the~~ a tubular member within the borehole in overlapping relation to the wellbore casing;

radially expanding and plastically deforming a portion of the tubular member to form a bell section; and

radially expanding and plastically deforming a second portion of the tubular member above the bell section comprising a portion of the tubular member that overlaps with the wellbore casing;

wherein ~~the~~ an inside diameter of the bell section is greater than ~~the~~ an inside diameter of the radially expanded and plastically deformed portion of the tubular member above the bell section.

601. (Currently Amended) A method for forming a mono diameter wellbore casing, comprising:

positioning an adjustable expansion device within a first expandable tubular member;

supporting the first expandable tubular member and the adjustable expansion device within a borehole;

lowering the adjustable expansion device out of the first expandable tubular member;

increasing ~~the~~ an outside dimension of the adjustable expansion device;

displacing the adjustable expansion device upwardly relative to the first expandable tubular member m times to radially expand and plastically deform m portions of the first expandable tubular member within the borehole;

positioning the adjustable expansion device within a second expandable tubular member;

supporting the second expandable tubular member and the adjustable expansion device within the borehole in overlapping relation to the first expandable tubular member;

lowering the adjustable expansion device out of the second expandable tubular member;

increasing ~~the~~ an outside dimension of the adjustable expansion device; and

displacing the adjustable expansion device upwardly relative to the second expandable tubular member n times to radially expand and plastically deform n portions of the second expandable tubular member within the borehole.

602. (Currently Amended) A method for radially expanding and plastically deforming an expandable tubular member within a borehole, comprising:

positioning an adjustable expansion device within the expandable tubular member;

supporting the expandable tubular member and the adjustable expansion device within the borehole;

lowering the adjustable expansion device out of the expandable tubular member;

increasing ~~the~~ an outside dimension of the adjustable expansion device;

displacing the adjustable expansion ~~mandrel~~ device upwardly relative to the expandable tubular member n times to radially expand and plastically deform n portions of the expandable tubular member within the borehole; and

pressurizing an interior region of the expandable tubular member above the adjustable expansion device during the radial expansion and plastic deformation of the expandable tubular member within the borehole.

603. (Previously Presented) A method for forming a mono diameter wellbore casing, comprising:

positioning an adjustable expansion device within a first expandable tubular member;

supporting the first expandable tubular member and the adjustable expansion device within a borehole;

lowering the adjustable expansion device out of the first expandable tubular member;

increasing ~~the~~ an outside dimension of the adjustable expansion device;

displacing the adjustable expansion device upwardly relative to the first expandable tubular member m times to radially expand and plastically deform m portions of the first expandable tubular member within the borehole;

pressurizing an interior region of the first expandable tubular member above the adjustable expansion device during the radial expansion and plastic deformation of the first expandable tubular member within the borehole;

positioning the adjustable expansion ~~mandrel~~ device within a second expandable tubular member;

supporting the second expandable tubular member and the adjustable expansion ~~mandrel~~ device within the borehole in overlapping relation to the first expandable tubular member;

lowering the adjustable expansion ~~mandrel~~ device out of the second expandable tubular member;

increasing the outside dimension of the adjustable expansion ~~mandrel~~device;

displacing the adjustable expansion ~~mandrel~~ device upwardly relative to the second expandable tubular member n times to radially expand and plastically deform n portions of the second expandable tubular member within the borehole; and

pressurizing an interior region of the second expandable tubular member above the adjustable expansion ~~mandrel~~ device during the radial expansion and plastic deformation of the second expandable tubular member within the borehole.

604. (Currently Amended) A method for radially expanding and plastically deforming an expandable tubular member within a borehole, comprising:

supporting the expandable tubular member, an hydraulic actuator, and an adjustable expansion device within the borehole;

increasing ~~the~~ a size of the adjustable expansion device; and

displacing the adjustable expansion device upwardly relative to the expandable tubular member using the hydraulic actuator to radially expand and plastically deform a portion of the expandable tubular member.

605. (Currently Amended) A method for forming a mono diameter wellbore casing within a borehole that includes a preexisting wellbore casing, comprising:

supporting ~~the~~ an expandable tubular member, ~~an~~ hydraulic actuator, and an adjustable expansion device within the borehole;

increasing ~~the~~ a size of the adjustable expansion device;

displacing the adjustable expansion device upwardly relative to the expandable tubular member using the hydraulic actuator to radially expand and plastically deform a portion of the expandable tubular member; and

displacing the adjustable expansion device upwardly relative to the expandable tubular member to radially expand and plastically deform ~~the~~ a remaining portion of the expandable tubular member and a portion of the preexisting wellbore casing that overlaps with an end of the remaining portion of the expandable tubular member.

606. (Previously Presented) A method of radially expanding and plastically deforming a tubular member, comprising:

positioning the tubular member within a preexisting structure;

radially expanding and plastically deforming a lower portion of the tubular member to form a bell section; and

radially expanding and plastically deforming a portion of the tubular member above the bell section.

607. (Previously Presented) A method of radially expanding and plastically deforming a tubular member, comprising:

applying internal pressure simultaneously to the inside surface of the tubular member at a plurality of discrete spaced apart locations separated from one another.

608. (Previously Presented) A system for radially expanding and plastically deforming an expandable tubular member within a borehole having a preexisting wellbore casing, comprising:

means for positioning the tubular member within the borehole in overlapping relation to the wellbore casing;

means for radially expanding and plastically deforming a portion of the tubular member to form a bell section; and

means for radially expanding and plastically deforming a portion of the tubular member above the bell section comprising a portion of the tubular member that overlaps with the wellbore casing;

wherein the inside diameter of the bell section is greater than the inside diameter of the radially expanded and plastically deformed portion of the tubular member above the bell section.

609. (Previously Presented) A system for forming a mono diameter wellbore casing, comprising:

means for positioning an adjustable expansion device within a first expandable tubular member;

means for supporting the first expandable tubular member and the adjustable expansion device within a borehole;

means for lowering the adjustable expansion device out of the first expandable tubular member;

means for increasing the outside dimension of the adjustable expansion device;

means for displacing the adjustable expansion device upwardly relative to the first expandable tubular member m times to radially expand and plastically deform m portions of the first expandable tubular member within the borehole;

means for positioning the adjustable expansion device within a second expandable tubular member;

means for supporting the second expandable tubular member and the adjustable expansion device within the borehole in overlapping relation to the first expandable tubular member;

means for lowering the adjustable expansion device out of the second expandable tubular member;

means for increasing the outside dimension of the adjustable expansion device; and

means for displacing the adjustable expansion device upwardly relative to the second expandable tubular member n times to radially expand and plastically deform n portions of the second expandable tubular member within the borehole.

610. (Currently Amended) A system for radially expanding and plastically deforming an expandable tubular member within a borehole, comprising:

means for positioning an adjustable expansion device within the expandable tubular member;

means for supporting the expandable tubular member and the adjustable expansion device within the borehole;

means for lowering the adjustable expansion device out of the expandable tubular member;

means for increasing an outside dimension of the adjustable expansion device;

means for displacing the adjustable expansion ~~mandrel~~ device upwardly relative to the expandable tubular member n times to radially expand and plastically deform n portions of the expandable tubular member within the borehole; and

means for pressurizing an interior region of the expandable tubular member above the adjustable expansion device during the radial expansion and plastic deformation of the expandable tubular member within the borehole.

611. (Currently Amended) A system for forming a mono diameter wellbore casing, comprising:

means for positioning an adjustable expansion device within a first expandable tubular member;

means for supporting the first expandable tubular member and the adjustable expansion device within a borehole;

means for lowering the adjustable expansion device out of the first expandable tubular member;

means for increasing ~~the~~ an outside dimension of the adjustable expansion device;

means for displacing the adjustable expansion device upwardly relative to the first expandable tubular member m times to radially expand and plastically deform m portions of the first expandable tubular member within the borehole;

means for pressurizing an interior region of the first expandable tubular member above the adjustable expansion device during the radial expansion and plastic deformation of the first expandable tubular member within the borehole;

means for positioning the adjustable expansion ~~mandrel~~ device within a second expandable tubular member;

means for supporting the second expandable tubular member and the adjustable expansion ~~mandrel~~ device within the borehole in overlapping relation to the first expandable tubular member;

means for lowering the adjustable expansion ~~mandrel~~ device out of the second expandable tubular member;

means for increasing the outside dimension of the adjustable expansion ~~mandrel~~device;

means for displacing the adjustable expansion ~~mandrel~~ device upwardly relative to the second expandable tubular member n times to radially expand and plastically deform n portions of the second expandable tubular member within the borehole; and

means for pressurizing an interior region of the second expandable tubular member above the adjustable expansion ~~mandrel~~ device during the radial expansion and plastic deformation of the second expandable tubular member within the borehole.

612. (Currently Amended) A system for radially expanding and plastically deforming an expandable tubular member within a borehole, comprising:

means for supporting the expandable tubular member, an hydraulic actuator, and an adjustable expansion device within the borehole;

means for increasing ~~the~~ a size of the adjustable expansion device; and

means for displacing the adjustable expansion device upwardly relative to the expandable tubular member using the hydraulic actuator to radially expand and plastically deform a portion of the expandable tubular member.

613. (Currently Amended) A system of radially expanding and plastically deforming a tubular member, comprising:

a support member; and

means for applying internal pressure to ~~the~~ an inside surface of the tubular member at a plurality of discrete locations separated from one another coupled to the support member.

Claims 614-619. (Canceled).